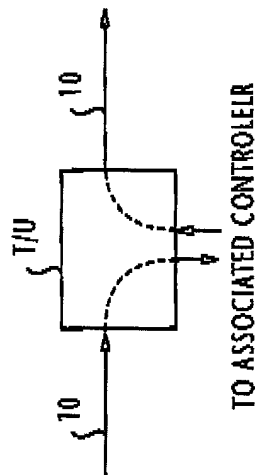
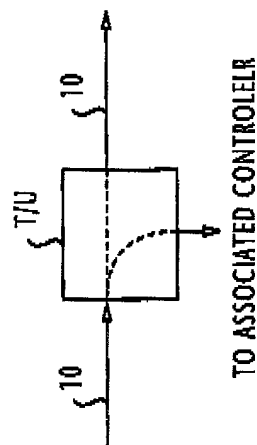
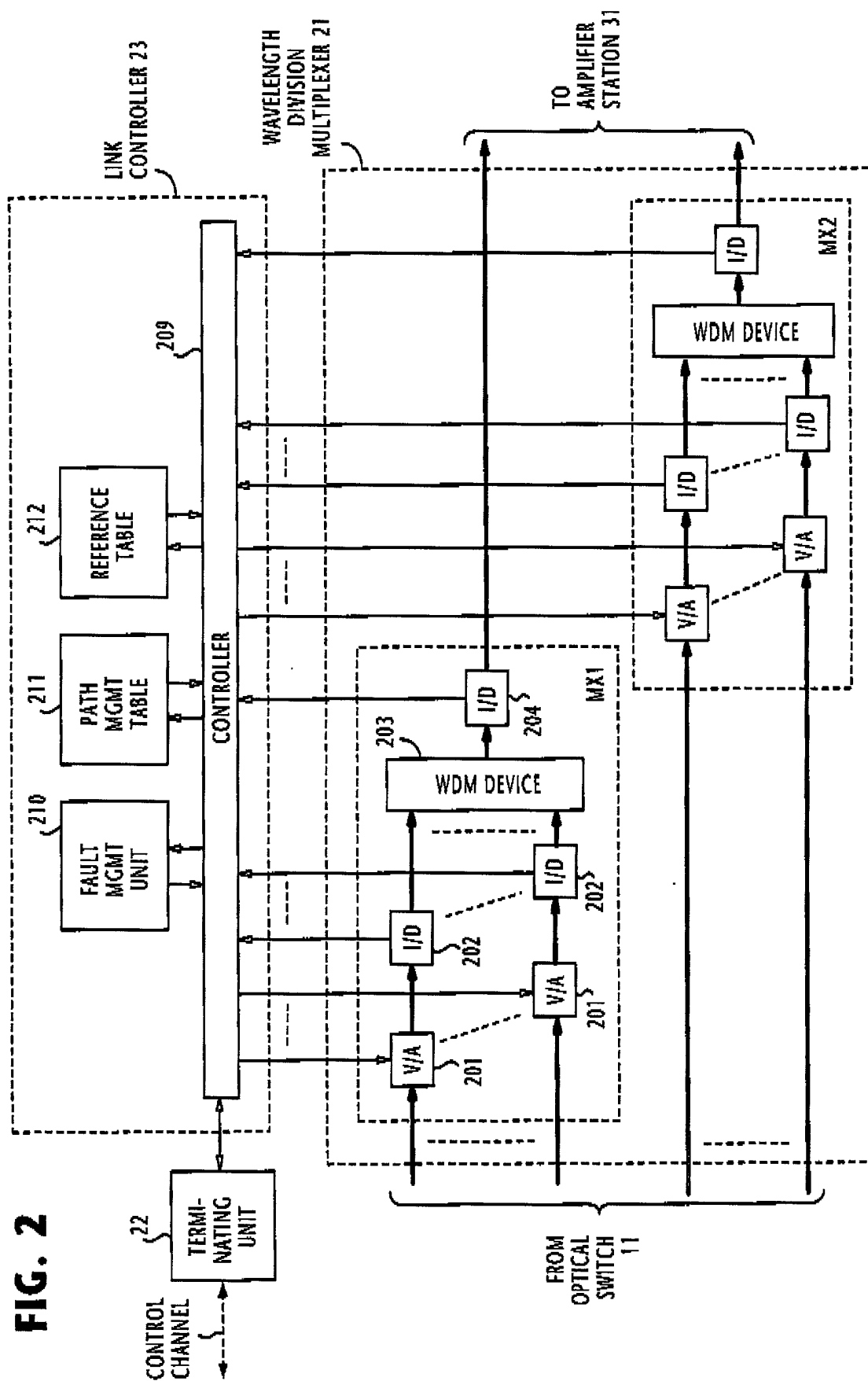
**FIG. 1b****FIG. 1a**



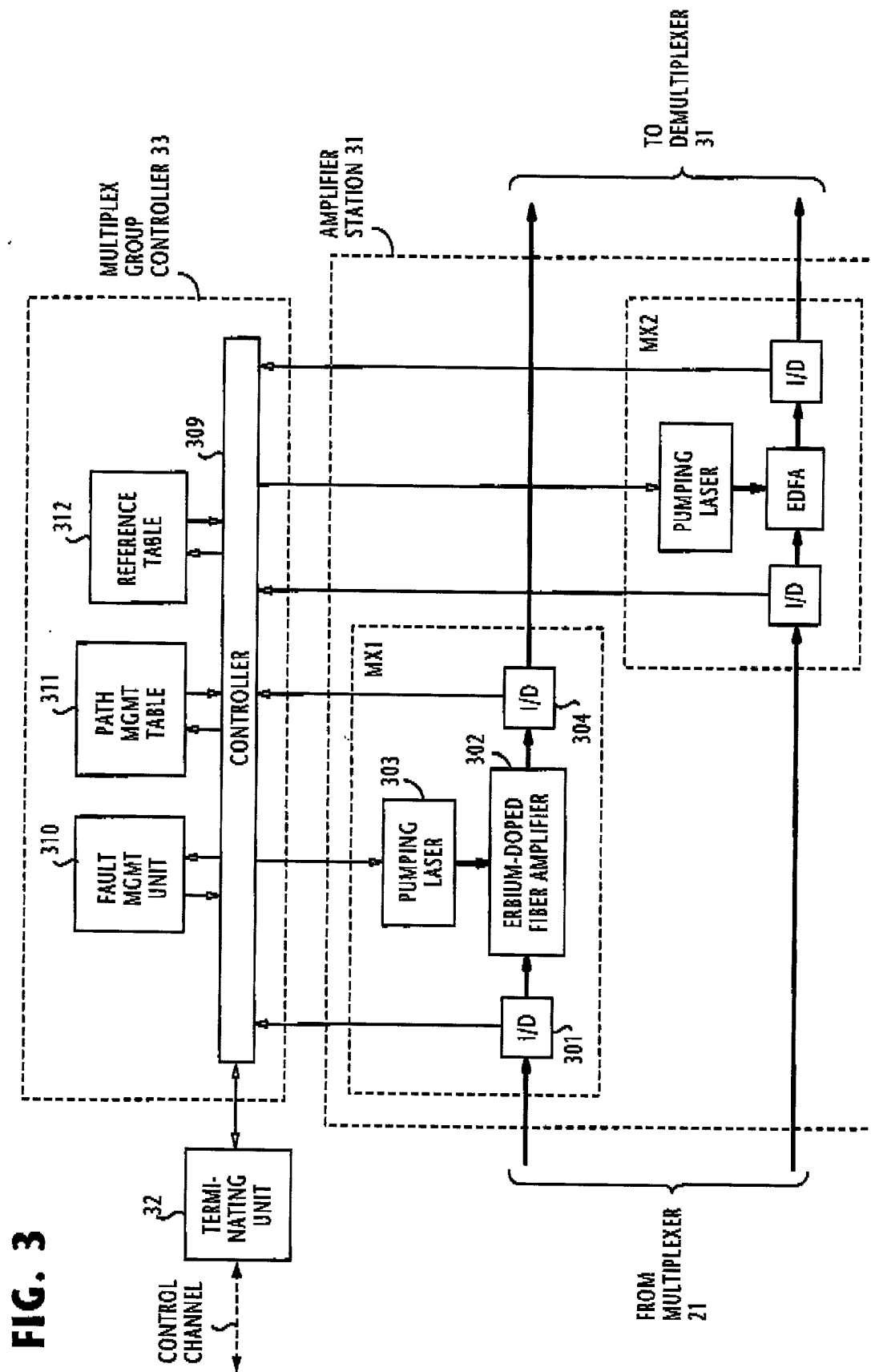




FIG. 5A

PATH MANAGEMENT TABLE (LINK CONTROLLER)

PATH NUMBER	WAVELENGTH NUMBER	LINK NUMBER	TRANSMISSION RATE	DATA FORMAT	MULTIPLEX GROUP NO.	REF. OPTICAL INPUT INTENSITY	REF. OPTICAL OUTPUT INTENSITY
#11	$\lambda 1$	#1	2.5 Gbps	SONET	#1	-10 dBm	-15 dBm
#12	$\lambda 4$	#1	2.5 Gbps	SONET	#1	-10 dBm	-15 dBm
#21	$\lambda 2$	#3	10 Gbps	SONET	#1	-8 dBm	-13 dBm
#22	$\lambda 3$	#4	10 Gbps	SONET	#1	-8 dBm	-13 dBm
#31	$\lambda 1$	#6	1 Gbps	GEther	#2	-12 dBm	-17 dBm
#32	$\lambda 2$	#6	1 Gbps	GEther	#2	-12 dBm	-17 dBm

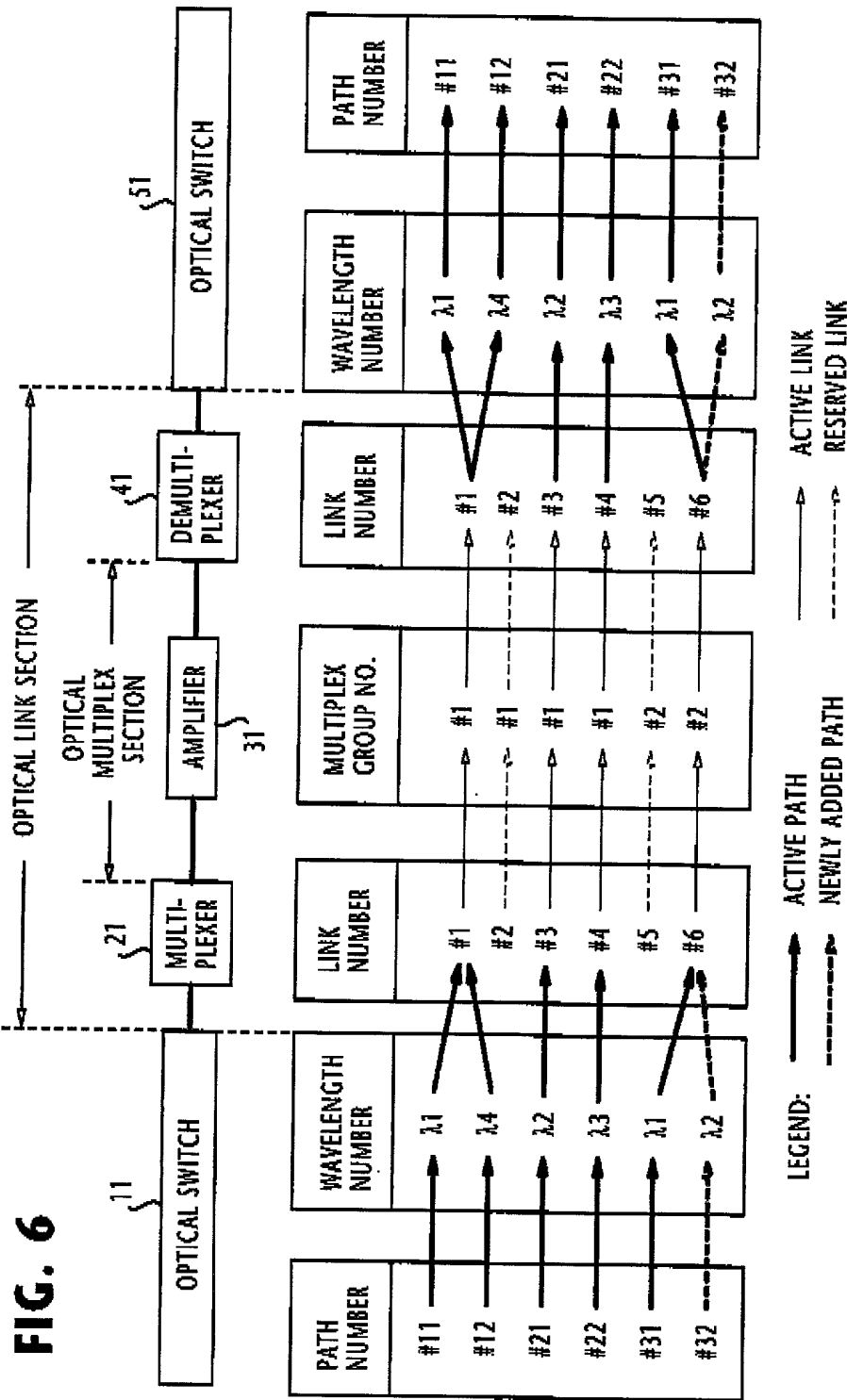
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**FIG. 5B**

PATH MANAGEMENT TABLE (MULTIPLEX GROUP CONTROLLER)

PATH NUMBER	WAVELENGTH NUMBER	TRANSMISSION RATE	DATA FORMAT	MULTIPLEX GROUP NO.	REF. OPTICAL INPUT INTENSITY	REF. OPTICAL OUTPUT INTENSITY
#11	$\lambda_1$	2.5 Gbps	SONET	#1	-10 dBm	0 dBm
#12	$\lambda_4$	2.5 Gbps	SONET	#1	-10 dBm	0 dBm
#21	$\lambda_2$	10 Gbps	SONET	#1	-8 dBm	2 dBm
#22	$\lambda_3$	10 Gbps	SONET	#1	-8 dBm	2 dBm
#31	$\lambda_1$	1 Gbps	GEther	#2	-12 dBm	-2 dBm
#32	$\lambda_2$	1 Gbps	GEther	#2	-12 dBm	-2 dBm



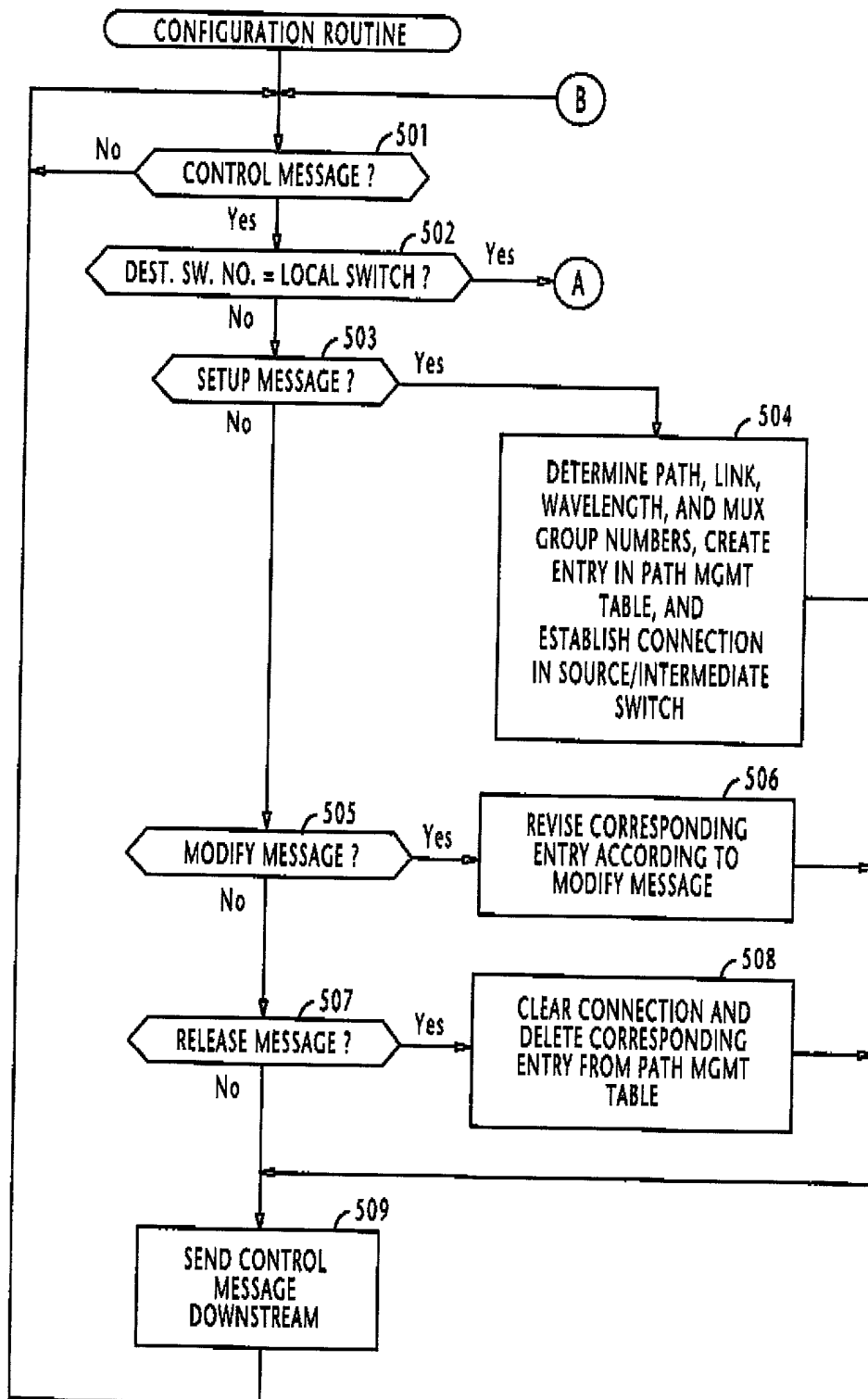
**FIG. 7**

CONTROL (SETUP) MESSAGE FORMAT

MESSAGE TYPE	PATH NUMBER	WAVELENGTH NUMBER	LINK NUMBER	MULTIPLEX GROUP NO.	TRANSMISSION RATE	DATA FORMAT	DESTINATION SW NUMBER
SETUP	#32	$\lambda 2$	#6	#2	1 Gbps	GEther	300

**FIG. 8A**

PATH CONTROLLER  
FOR SOURCE AND  
INTERMEDIATE SWITCHES

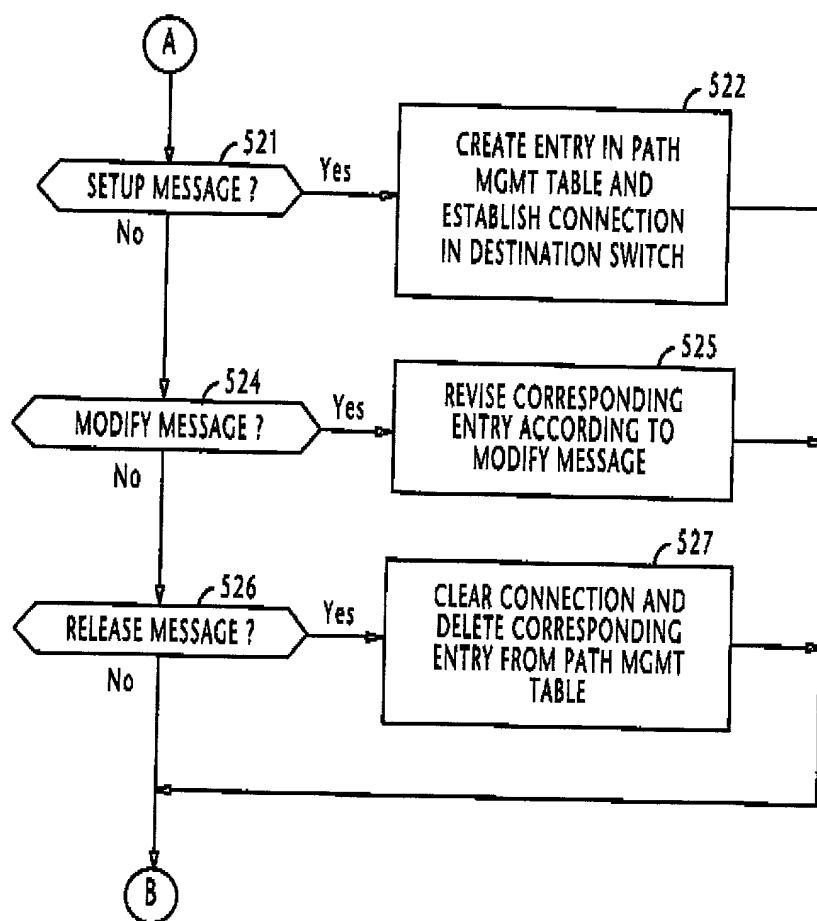


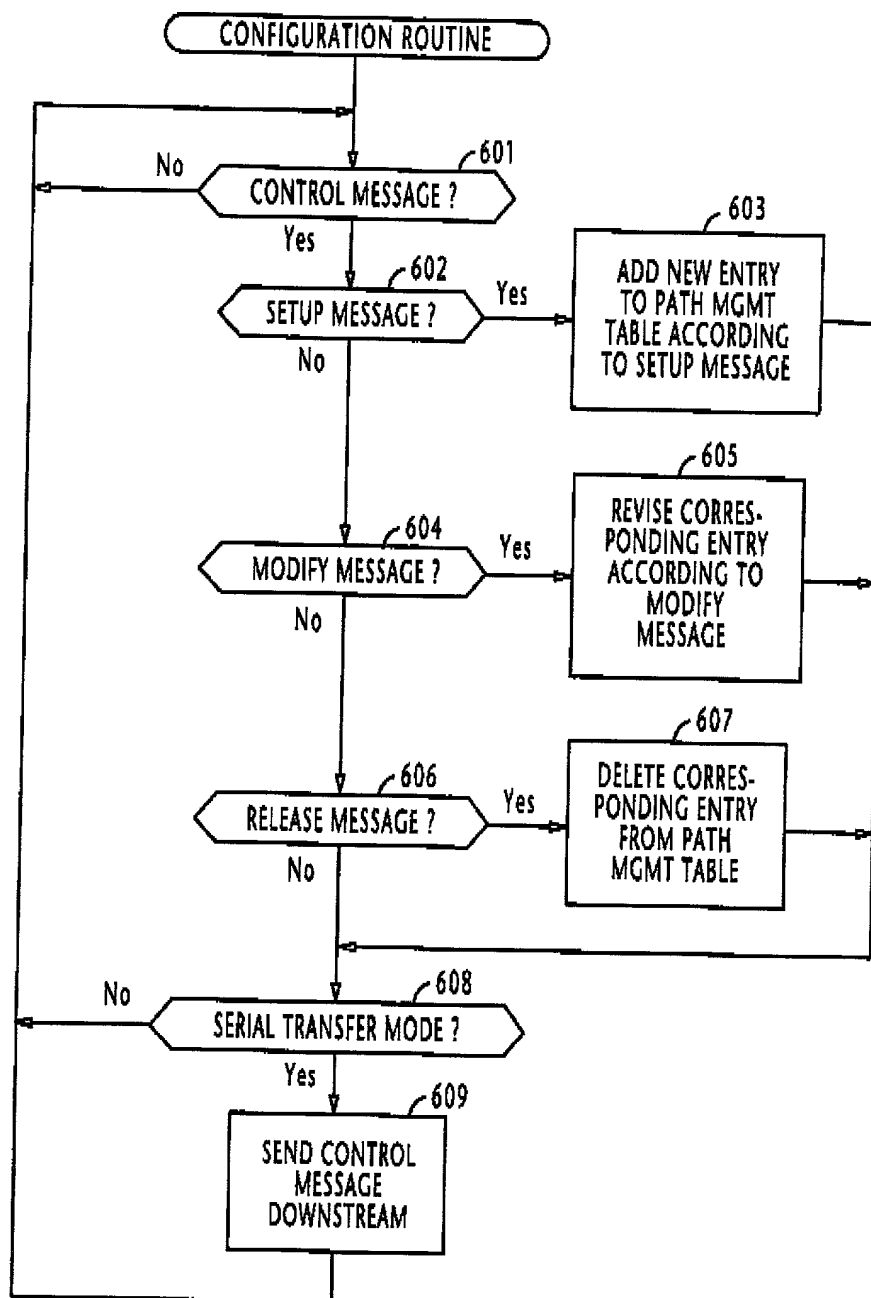
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**FIG. 8B**

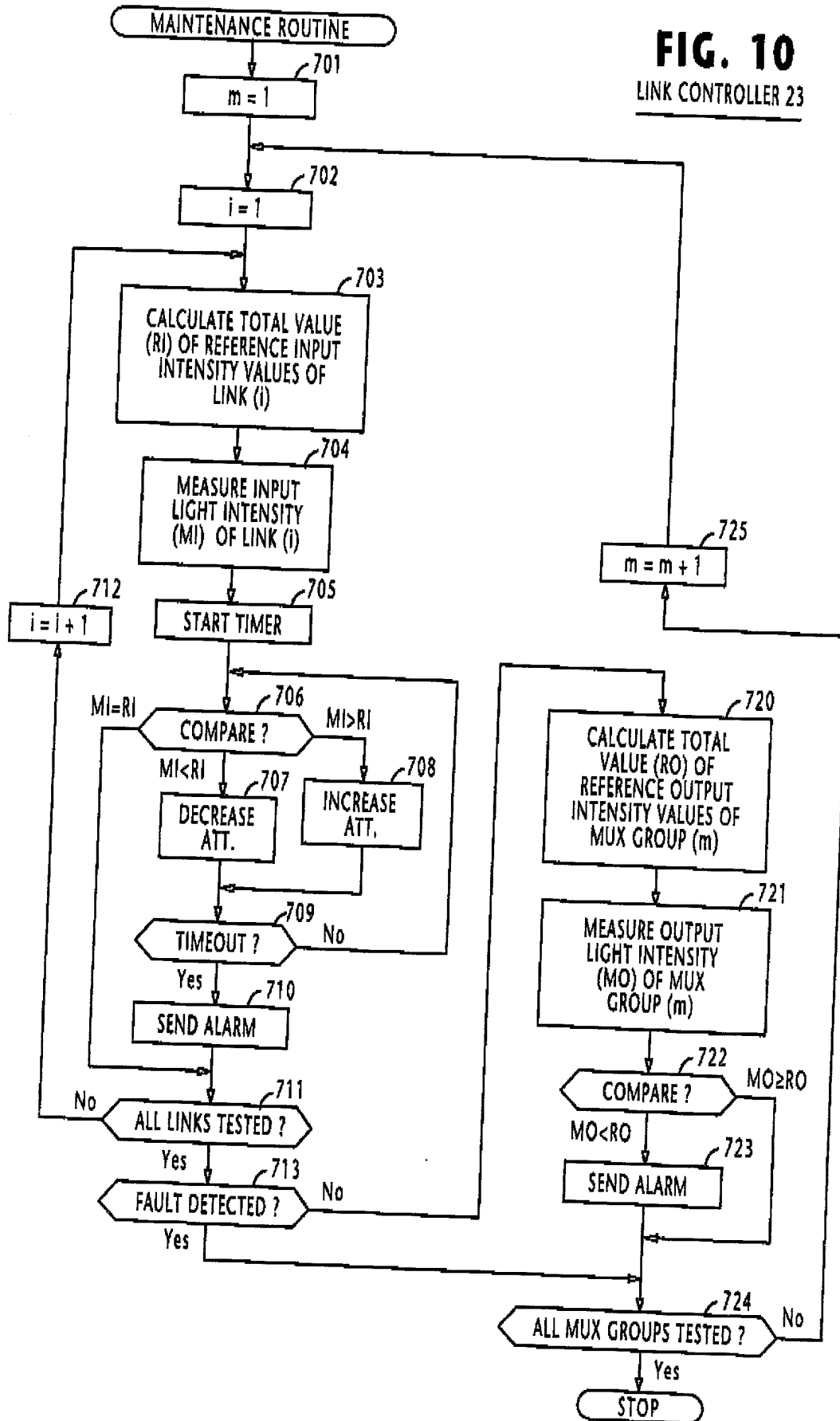
PATH CONTROLLER FOR  
DESTINATION SWITCH

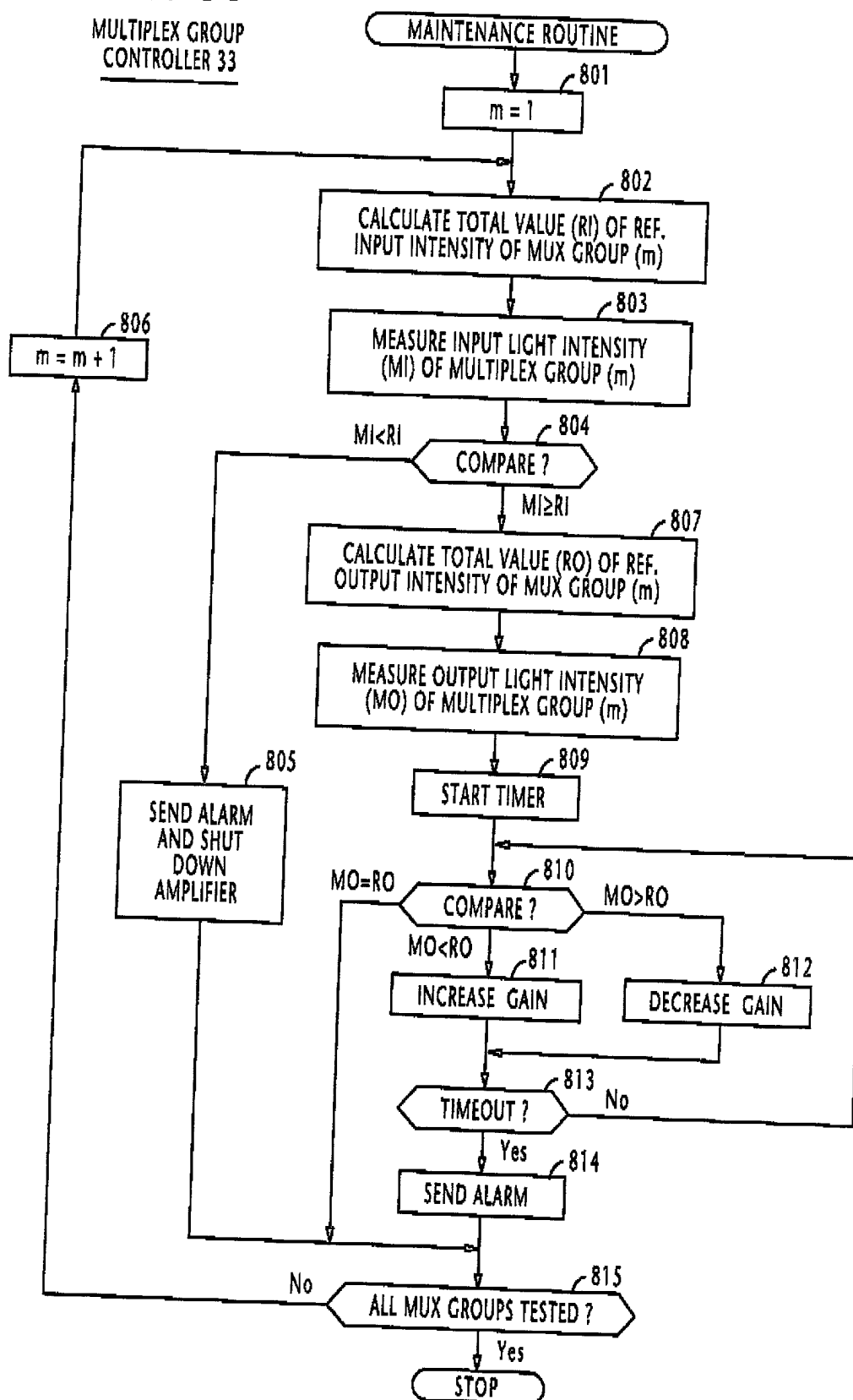


**FIG. 9****LINK AND MUX GROUP  
CONTROLLERS**

**FIG. 10**

LINK CONTROLLER 23



**FIG. 11****MULTIPLEX GROUP  
CONTROLLER 33**

**FIG. 12****LINK CONTROLLER 43**